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Classification Data

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FILE 'REGISTRY' ENTERED AT 09:49:16 ON 21 JAN 2009
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STRUCTURE FILE UPDATES: 20 JAN 2009 HIGHEST RN 1094597-78-0
DICTIONARY FILE UPDATES: 20 JAN 2009 HIGHEST RN 1094597-78-0

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

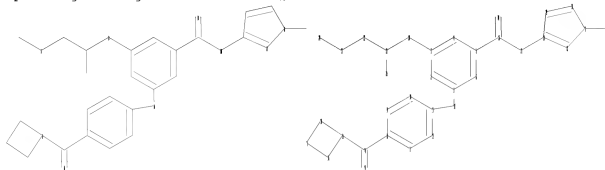
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=>

Uploading C:\Program Files\STNEXP\Queries\10588334 elected.str



chain nodes :
13 14 19 20 21 22 23 24 25 26 27 33 34
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 15 16 17 18 28 29 30 31 32
chain bonds :
1-13 3-20 5-26 8-14 11-13 14-15 14-19 20-21 21-22 21-25 22-23 23-24
26-27 26-34 27-28 31-33
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 15-16 15-18
16-17 17-18 28-29 28-32 29-30 30-31 31-32
exact/norm bonds :
1-13 3-20 11-13 14-15 14-19 15-16 15-18 16-17 17-18 20-21 22-23 23-24
26-27 26-34 27-28 28-29 28-32 29-30 30-31 31-32 31-33
exact bonds :
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normalized bonds :
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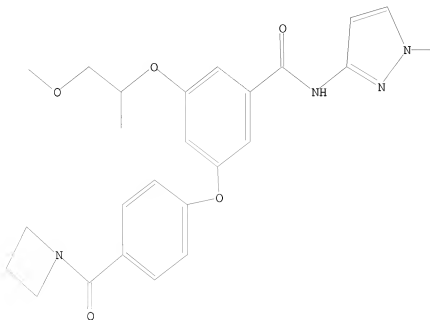
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 11:Atom 12:Atom 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 09:49:46 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 9 TO 360

PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 sss ful

FULL SEARCH INITIATED 09:49:51 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 121 TO ITERATE

100.0% PROCESSED 121 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

L3 9 SEA SSS FUL L1

=> fil cap

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.88

186.10

FILE 'CAPLUS' ENTERED AT 09:49:55 ON 21 JAN 2009

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FILE COVERS 1907 - 21 Jan 2009 VOL 150 ISS 4

FILE LAST UPDATED: 20 Jan 2009 (20090120/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> d 13

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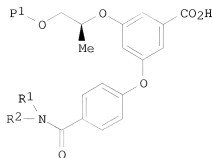
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L4 4 L3

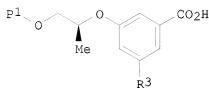
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L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

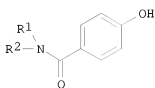
GI



I



II



III

AB The present invention relates to an improved process for preparing I [R1 and R2 independently = H, alkyl; R1 and R2 may join together with N to form a 4- to 7-membered heterocyclcyl ring; P1 = H or hydroxy protecting group], which are useful as intermediates to compds. which activate glucokinase. The method involves substitution of II [R3 = halo] with III to provide I in the presence of copper catalysts containing 2,2,6,6-tetramethylheptane-3,5-dione (TMHD) ligand. An alternative preparation of I via hydrolysis of corresponding ester is provided. I could be further reacted with (un)substituted 5 to 6-membered heterocyclic amine derivs. to generate corresponding amides by amidation. Thus, e.g., substitution of 3-bromo-5-((1S)-2-tert-butoxy-1-methylethoxy)benzoic acid (preparation given) with 4-(azetidin-1-ylcarbonyl)phenol (preparation given) using

copper iodide as catalyst and TMHD as ligand gives desired intermediate 3-[4-(azetidin-1-ylcarbonyl)phenoxy]-5-[(1S)-2-tert-butoxy-1-methylethoxy]benzoic acid, which could further react with 1-methyl-3-aminopyrazole followed by hydrolysis to provide 3-[4-(azetidin-1-ylcarbonyl)phenoxy]-5-[(1S)-2-hydroxy-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)benzamide.

ACCESSION NUMBER: 2007:593421 CAPLUS

DOCUMENT NUMBER: 147:30824

TITLE: Method for preparing benzoic acid derivatives via substitution of haloalkoxybenzoic acid with aminocarbonylphenol utilizing copper catalysts containing 2,2,6,6-tetramethylheptane-3,5-dione ligand
 Hopes, Phillip Anthony; Parker, Jeremy Stephen; Patel, Bharti; Welham, Matthew James
 PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
 SOURCE: PCT Int. Appl., 29pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

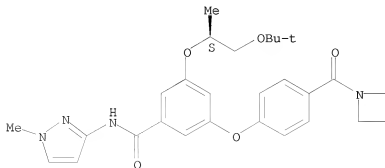
KIND DATE

APPLICATION NO.

DATE

WO 2007060448	A2	20070531	WO 2006-GB4399	20061127
WO 2007060448	A3	20080410		
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
AU 2006318889	A1	20070531	AU 2006-318889	20061127
CA 2629995	A1	20070531	CA 2006-2629995	20061127
EP 1960354	A2	20080827	EP 2006-808668	20061127
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
CN 101316815	A	20081203	CN 2006-80044216	20080526
MX 200806788	A	20080604	MX 2008-6788	20080527
IN 2008DN04513	A	20080815	IN 2008-DN4513	20080527
US 20080300412	A1	20081204	US 2008-95101	20080527
KR 2008072738	A	20080806	KR 2008-715241	20080623
PRIORITY APPLN. INFO.:			US 2005-740042P	P 20051128
			WO 2006-GB4399	W 20061127
OTHER SOURCE(S): MARPAT 147:30824				
IT 937842-59-6P				
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
(preparation of aryl amide using intermediate aminocarbonylphenoxyalkoxybenzoic acid with heterocyclic amine derivs. by amidation)				
RN 937842-59-6 CAPLUS				
CN Benzamide, 3-[4-(1-azetidinyllcarbonyl)phenoxy]-5-[(1S)-2-(1,1-dimethylethoxy)-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)				

Absolute stereochemistry.



* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = fluoromethoxymethyl, difluoromethoxymethyl or trifluoromethoxymethyl; R2 = -C(O)NR4R5, -SO2NR4R5, -S(O)pR4, etc.; Het-1 = 5- or 6-membered, C-linked heteroaryl ring containing a nitrogen atom in the 2-position and optionally 1 or 2 further ring heteroatoms selected from O, N and S, which ring is optionally substituted on an available carbon atom, or on a ring nitrogen atom provided it is not thereby quaternized, with 1 or 2 substituents selected from R6; R3 = halo; R4 = H, alkyl [optionally substituted by 1 or 2 substituents selected from -OR5, -SO2R5, cycloalkyl (optionally substituted by R7)], etc.; R5 = H, alkyl; R4 and R5 together with the nitrogen atom to which they are attached may form a heterocycle; R6 = alkyl, hydroxyalkyl, alkocycloalkyl, etc.; R7 = alkyl, -C(O)alkyl, alkoxyalkyl, etc.; p = 0-2; n = 0-2] or their salts were prepared. For example, reaction of 3-[(1S)-2-[(difluoromethyl)oxy]-1-methylethyl]oxy)-5-hydroxy-N-(1-methyl-1H-pyrazol-3-yl)benzamide, e.g., prepared from Me 3,5-dihydroxybenzoate in 9 steps, with 1-(3-chloro-4-fluorobenzoyl)azetidine afforded compound II. Compds. of the invention generally activated glucokinase with an EC50 of less than about 500 nM, e.g., compound II exhibited the EC50 value of 40 nM.

ACCESSION NUMBER: 2007:61636 CAPLUS
DOCUMENT NUMBER: 146:142648
TITLE: Preparation of heteroaryl benzamide derivatives as glucokinase activators for the treatment of diabetes
INVENTOR(S): McKerrecher, Darren; Pike, Kurt Gordon; Waring, Michael James
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 62pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007007042	A1	20070118	WO 2006-GB2472	20060603
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2009500444	T	20090108	JP 2008-520937	20060703
IN 2007DN10164	A	20080620	IN 2007-DN10164	20071228
CN 101218230	A	20080709	CN 2006-80024889	20080108
US 20080234273	A1	20080925	US 2008-995079	20080606
PRIORITY APPLN. INFO.:			GB 2005-14174	A 20050709
			GB 2005-16298	A 20050809
			WO 2006-GB2472	W 20060603
OTHER SOURCE(S):	CASREACT 146:142648; MARPAT 146:142648			
IT 919492-72-1P				

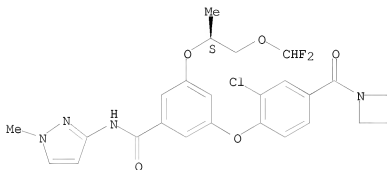
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of heteroaryl benzamide derivs. as glucokinase activators for treatment of diabetes)

RN 919492-72-1 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylicarbonyl)-2-chlorophenoxy]-5-[(1S)-2-(difluoromethoxy)-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



IT 919492-73-2P

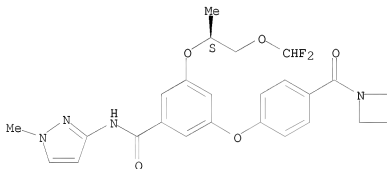
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heteroaryl benzamide derivs. as glucokinase activators for treatment of diabetes)

RN 919492-73-2 CAPLUS

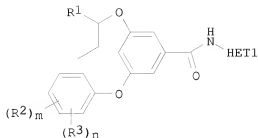
CN Benzamide, 3-[4-(1-azetidinylicarbonyl)phenoxy]-5-[(1S)-2-(difluoromethoxy)-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
GI



I

AB Title compds. [I; R1 = MeOCH2; R2 = CONR4R5, SO2NR4R5, SOpR4, HET2; HET1 = 5-6 membered (substituted) C-linked heteroaryl; HET2 = 4-6 membered, C- or N-linked (substituted) heterocyclyl; R3 = halo, FCH2, F2CH, CF3, Me, MeO, cyano; R4 = H, (substituted) alkyl, HET2; R5 = H, alkyl; R4R5N = HET3; HET3 = (substituted) N-linked, 4-6 membered, saturated or partially unsatd. heterocyclyl; n, p = 0-2; m = 0, 1; provided that when m = 0, then n = 1, 2], were prepared Thus, 3-[4-(azetidin-1-ylcarbonyl)-2-fluorophenoxy]-5-[[[(1S)-1-(methoxymethyl)propyl]oxy]-N-(1-methyl-1H-pyrazol-3-yl)benzamide (preparation outlined) activated glucokinase with EC50 = 0.04 μ M.

ACCESSION NUMBER: 2006:366940 CAPLUS

DOCUMENT NUMBER: 144:412497

TITLE: Preparation of N-pyrazolyl phenoxybenzamides as glucokinase activators for the treatment of type 2 diabetes.

INVENTOR(S): Johnstone, Craig; McKerrecher, Darren; Pike, Kurt Gordon; Waring, Michael James

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited

SOURCE: PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006040528	A1	20060420	WO 2005-GB3888	20051011
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CN 101039915	A	20070919	CN 2005-80035074	20051011
EP 1856056	A1	20071121	EP 2005-791490	20051011
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JP 2008516936	T	20080522	JP 2007-536248	20051011
IN 2007DN02527	A	20070803	IN 2007-DN2527	20070404
US 20080280874	A1	20081113	US 2008-665163	20080605
PRIORITY APPLN. INFO.:			GB 2004-23043	A 20041016
			WO 2005-GB3888	W 20051011

OTHER SOURCE(S): MARPAT 144:412497

IT 883749-41-5P 883749-42-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

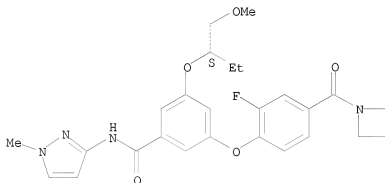
(claimed compound; preparation of N-pyrazolyl phenoxybenzamides as glucokinase

activators for the treatment of type 2 diabetes)

RN 883749-41-5 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylicarbonyl)-2-fluorophenoxy]-5-[(1S)-1-(methoxymethyl)propoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

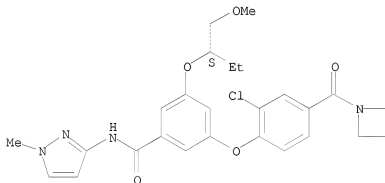
Absolute stereochemistry.



RN 883749-42-6 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylicarbonyl)-2-chlorophenoxy]-5-[(1S)-1-(methoxymethyl)propoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

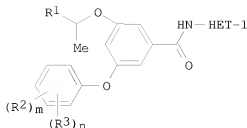
Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

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AB Title compds. I [R1 = methoxymethyl; R2 = carboxamido, sulfonamido, etc.; HET-1 = 5-6 membered C-linked heteroaryl; R3 = halo, fluoromethyl, difluoromethyl, etc.; m = 0-1; n = 0-2] are prepared. For instance, 3-[4-[[[(2-methoxyethyl)amino]carbonyl]phenoxy]-5-[(1S)-2-methoxy-1-methylethyl]oxy]-N-(thiazol-2-yl)benzamide is prepared by the coupling of 4-[[3-[[[(1S)-2-methoxy-1-methylethyl]oxy]-5-[(thiazol-2-ylamino)carbonyl]phenyl]oxy]benzoic acid (preparation given) and 2-methoxyethylamine (DMF, DIPEA, HATu). Compds. of the invention generally have an activating activity for glucokinase with an EC50 of < 500 nM. I are useful in the treatment of type 2 diabetes.

ACCESSION NUMBER: 2005:962230 CAPLUS
DOCUMENT NUMBER: 143:266914
TITLE: Preparation of N-heteroaryl aryloxy-substituted benzamides as glucokinase activating agents
INVENTOR(S): Johnstone, Craig; McKerrecher, Darren; Pike, Kurt Gordon
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 138 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080359	A1	20050901	WO 2005-GB545	20050215
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EP 1718624	A1	20061108	EP 2005-708360	20050215
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CN 1922159	A	20070228	CN 2005-80005262	20050215
BR 2005007746	A	20070710	BR 2005-7746	20050215
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NO 2006003452	A	20061031	NO 2006-3452	20060726
IN 2006DN04322	A	20070427	IN 2006-DN4322	20060727

US 20080280872	A1	20081113	US 2006-588334	20060803
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KR 2007007103	A	20070112	KR 2006-719123	20060918
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			GB 2004-13386	A 20040616
			GB 2004-23039	A 20041016
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OTHER SOURCE(S): CASREACT 143:266914; MARPAT 143:266914

IT 863504-11-4P 863504-45-4P 863504-46-5P
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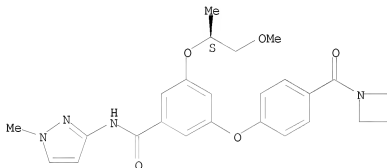
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of N-heteroaryl aryloxy-substituted benzamides as glucokinase
activating agents)

RN 863504-11-4 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylcarbonyl)phenoxy]-5-[(1S)-2-methoxy-1-
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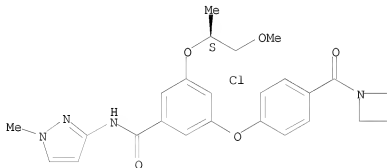
Absolute stereochemistry.



RN 863504-45-4 CAPLUS

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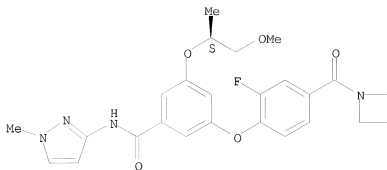
Absolute stereochemistry.



RN 863504-46-5 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylcarbonyl)-2-fluorophenoxy]-5-[(1S)-2-methoxy-1-
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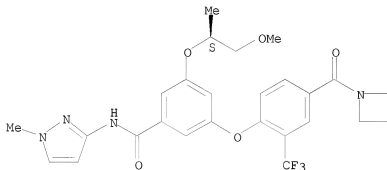
Absolute stereochemistry.



RN 863504-47-6 CAPLUS

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Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

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24.06 210.16

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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NEWS 2 NOV 21 CAS patent coverage to include exemplified prophetic
substances identified in English-, French-, German-,
and Japanese-language basic patents from 2004-present
NEWS 3 NOV 26 MARPAT enhanced with FSORT command
NEWS 4 NOV 26 CHEMSAFE now available on STN Easy
NEWS 5 NOV 26 Two new SET commands increase convenience of STN
searching
NEWS 6 DEC 01 ChemPort single article sales feature unavailable
NEWS 7 DEC 12 GBFULL now offers single source for full-text
coverage of complete UK patent families
NEWS 8 DEC 17 Fifty-one pharmaceutical ingredients added to PS
NEWS 9 JAN 06 The retention policy for unread STNmail messages
will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 10 JAN 07 WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
Classification Data

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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STRUCTURE FILE UPDATES: 20 JAN 2009 HIGHEST RN 1094597-78-0
DICTIONARY FILE UPDATES: 20 JAN 2009 HIGHEST RN 1094597-78-0

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

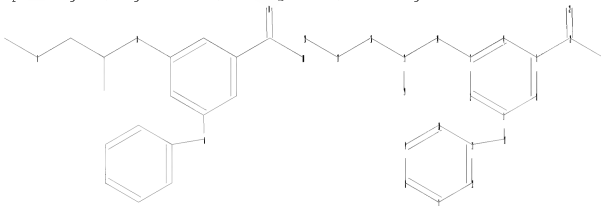
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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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ring bonds :
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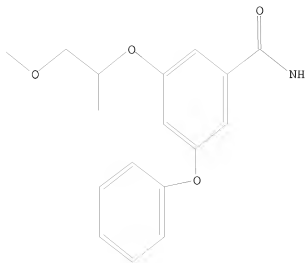
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L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

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FULL ESTIMATED COST      185.88      186.10
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FILE COVERS 1907 - 21 Jan 2009 VOL 150 ISS 4
FILE LAST UPDATED: 20 Jan 2009 (20090120/ED)
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Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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L3 14 L2

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25138568 PY<2005

4502964 AY<2003

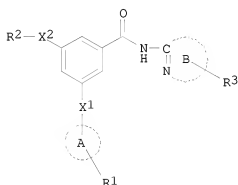
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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

GI



AB The title compds. (I) [wherein X1 =O, S, NH; X2 = O, S, CH2; R1 = 1 or 2 groups selected alkylsulfonyl, alkanoyl, lower alkyl, hydroxyalkyl, HO, mono or dialkylcarbamoyl, mono- or dialkylsulfamoyl, alkylthio, alkoxy, alkoxy-carbonylamino, alkoxy-carbonyl, halo, alkanoylaminoalkyl, alkoxy-carbonylaminoalkyl, alkylsulfonylaminoalkyl, cyano, and CF3 on the ring A; R2 = (un)substituted C3-7 cyclic alkyl optionally having one of the carbon atoms (excluding the carbon linked to X2) on the ring replaced by O, NH, N-alkanoyl, or NHCO; R3 = 1 or 2 groups selected from lower alkyl, alkoxy, mono- or dialkylamino, halo, CF3, hydroxyalkyl, alkoxyalkyl, aminoalkyl, alkanoyl, CO2H, alkoxy-carbonyl, and cyano on the ring B; the ring A = 6- to 10-membered aryl or 5- to 7-membered heteroaryl; the ring B = mono- or bicyclic heteroaryl wherein the carbon atom bonded to the amide N atom forms C:N together with the ring N atom] or pharmaceutically acceptable salts thereof. These compds. and salts thereof function to activate glucokinase and are useful as preventive and/or therapeutic agents for obesity or diabetes or for the treatment, prevention, and/or onset of type II diabetes. Thus, S-oxidation of 5-[[[(1S)-2-(tert-butylidimethylsilyloxy)-1-methylethyl]oxy]-3-(4-methylthiophenoxy)benzoic acid Me ester by m-chloroperbenzoic acid in CHCl3 under ice-cooling, saponification with a mixture of 5 N NaOH and MeOH and acidification with 5% citric acid, amidation with 2-aminothiazole using 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride and 1-hydroxybenzotriazole hydrate in CH2Cl2, and finally desilylation with 4 N HCl/dioxane at room temperature for 15 min gave 5-(2-hydroxy-1-methylethoxy)-3-[4-(methanesulfonyl)phenoxy]-N-(thiazol-2-

yl)benzamide (II). II activated recombinant human liver glucokinase with
EC50 of 0.08 μ M.

ACCESSION NUMBER: 2004:740302 CAPLUS
DOCUMENT NUMBER: 141:260754
TITLE: Preparation of heteroarylcarbomylbenzene derivatives
as glucokinase activators
INVENTOR(S): Iino, Tomoharu; Hashimoto, Noriaki; Nakashima,
Hiroshi; Takahashi, Keiji; Nishimura, Teruyuki; Eiki,
Junichi
PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 288 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004076420	A1	20040910	WO 2004-JP2284	20040226 <--
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CN 1777589	A	20060524	CN 2004-80010759	20040226
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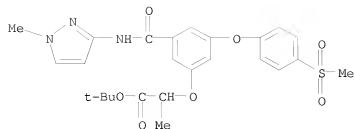
OTHER SOURCE(S): MARPAT 141:260754

IT 752240-23-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of heteroarylcarbomylbenzene derivs. as glucokinase activators for treatment of diabetes)

RN 752240-23-6 CAPLUS

CN Propanoic acid, 2-[3-[(1-methyl-1H-pyrazol-3-yl)amino]carbonyl]-5-[4-(methylsulfonyl)phenoxy]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)



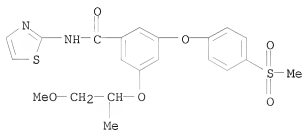
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 752240-79-2P 752240-95-2P 752241-29-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of heteroarylcarbamoylbenzene derivs. as glucokinase activators
 for treatment of diabetes)

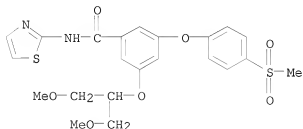
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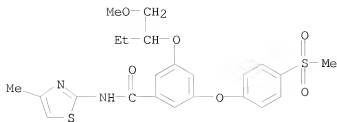
RN 752238-93-0 CAPLUS

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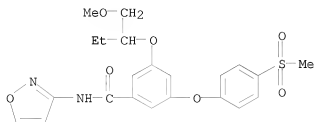
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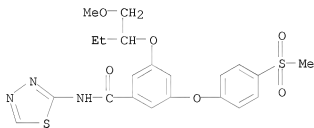
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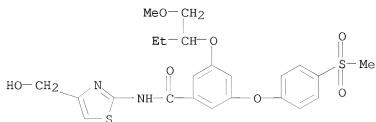
RN 752239-04-6 CAPLUS

CN Benamide, 3-[1-(methoxymethyl)propoxy]-5-[4-(methylsulfonyl)phenoxy]-N-1,3,4-thiadiazol-2-yl- (CA INDEX NAME)



RN 752239-06-8 CAPLUS

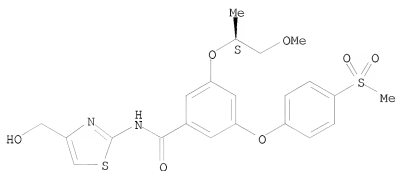
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RN 752239-30-8 CAPLUS

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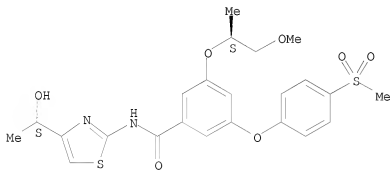
Absolute stereochemistry.



RN 752239-35-3 CAPLUS

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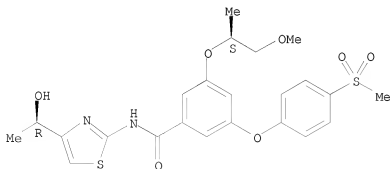
Absolute stereochemistry.



RN 752239-39-7 CAPLUS

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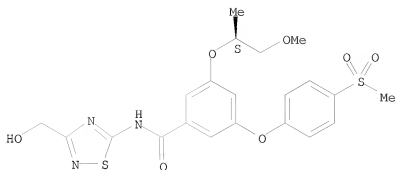
Absolute stereochemistry.



RN 752239-74-0 CAPLUS

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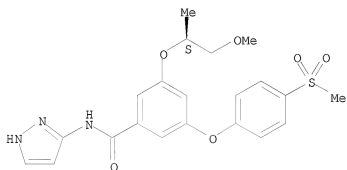
Absolute stereochemistry.



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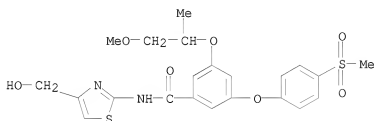
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Absolute stereochemistry.



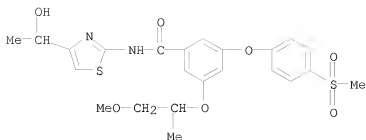
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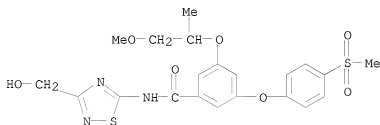
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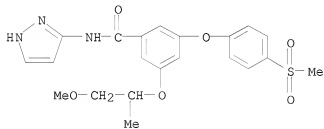
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RN 752241-29-5 CAPLUS

CN Benamide, 3-(2-methoxy-1-methylethoxy)-5-[4-(methylsulfonyl)phenoxy]-N-1H-pyrazol-3-yl- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL ESTIMATED COST

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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SESSION

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FILE 'REGISTRY' ENTERED AT 13:17:34 ON 21 JAN 2009

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 JAN 2009 HIGHEST RN 1094597-78-0
DICTIONARY FILE UPDATES: 20 JAN 2009 HIGHEST RN 1094597-78-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

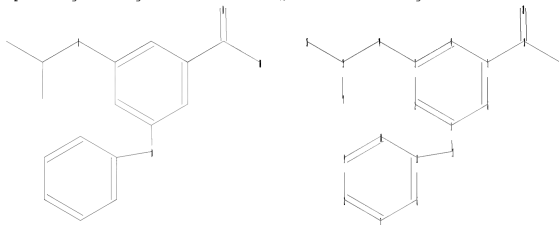
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10588334 generic2.str



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chain nodes :
13 14 15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
1-13 3-14 5-18 11-13 14-15 15-16 15-17 18-19 18-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-13 3-14 11-13 14-15 18-19 18-20
exact bonds :
5-18 15-16 15-17
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS
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L5 STRUCTURE UPLOADED

=> s 15 sss ful
FULL SEARCH INITIATED 13:17:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4040 TO ITERATE

100.0% PROCESSED 4040 ITERATIONS 669 ANSWERS
SEARCH TIME: 00.00.01

L6 669 SEA SSS FUL L5

=> fil cap		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	185.88	385.84
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.82

FILE 'CAPLUS' ENTERED AT 13:17:57 ON 21 JAN 2009
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FILE COVERS 1907 - 21 Jan 2009 VOL 150 ISS 4
FILE LAST UPDATED: 20 Jan 2009 (20090120/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

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L7 17 L6

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25138568 PY<2005
4502964 AY<2003
39711717 PRY<2003
L8 1 L7 AND (PY<2005 OR AY<2003 OR PRY<2003)

=> d 18

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:740302 CAPLUS
 DN 141:260754
 TI Preparation of heteroarylcarbamoylbenzene derivatives as glucokinase
 activators
 IN Iino, Tomoharu; Hashimoto, Noriaki; Nakashima, Hiroshi; Takahashi, Keiji;
 Nishimura, Teruyuki; Eiki, Junichi
 PA Banyu Pharmaceutical Co., Ltd., Japan
 SO PCT Int. Appl., 288 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004076420	A1	20040910	WO 2004-JP2284	20040226 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004215514	A1	20040910	AU 2004-215514	20040226 <--
CA 2516407	A1	20040910	CA 2004-2516407	20040226 <--
EP 1600442	A1	20051130	EP 2004-714930	20040226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004007810	A	20060301	BR 2004-7810	20040226
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IN 2005DN03604	A	20070601	IN 2005-DN3604	20050816
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US 7432287	B2	20081007		
NO 2005004425	A	20050923	NO 2005-4425	20050923
US 20090018056	A1	20090115	US 2008-231856	20080905
PRAI JP 2003-49466	A	20030226		
JP 2003-400882	A	20031128		
JP 2004-31298	A	20040206		
WO 2004-JP2284	A	20040226		
US 2005-546962	A3	20050825		
OS MARPAT 141:260754				
RE.CNT 3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

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LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

8.47

394.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

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